

Art Unit: ***

CLMPTO

09/863170

05/22/01

DH

Cancel claims 1-6.

7. A method of automatically locating and connecting a wireless communications device to an Internet Protocol (IP) network, comprising the steps of:

receiving an IP packet from a terminal on said network at a home agent;

said home agent transmitting an access-request message to an authentication server, said access-request message comprising a destination IP address found in said IP packet;

said authentication server responsively issuing an access-accept message to said home agent if said device is authorized to receive said IP packet, said access-accept message comprising information uniquely identifying said device;

said home agent transmitting a query message to a home location register node on a Signaling System 7 network, said home location register node responsively replying to said home agent with location information for said device;

paging said device via a wireless communications network; and

in response to said page, said device initiating a connection via said wireless communications network to said IP network whereby said IP packet is transmitted to said device.

8. The method of claim 7, further comprising the step of sending a call set-up message from said home agent to a mobile switching center for said wireless communications network to initiate said paging of said device.

9. The method of claim 8, wherein said device initiates said connection via a network access server coupling said wireless communications network to said IP network.

Art Unit: ***

10. A method of connecting a mobile wireless communications device to an Internet Protocol (IP) network, said wireless communications device being a subscriber to a wireless communications network, comprising the steps of:

authenticating said device to determine whether said device is authorized to receive an IP packet from a terminal connected either directly or indirectly to said IP network;

searching, with a location server on said IP network, for an existing IP address for routing said IP packet to said device when an IP packet is received by a node in said IP network destined for said device;

if said step of searching results in a negative result, responsively paging said device via said wireless communications network; and

connecting said device to said IP network via a network access server coupling said wireless communications network to said IP network when said device responds to said page by connecting to said network access server, said network access server notifying said location sever that it has said connection with said device and providing an IP address for said device to said location server, said IP address forwarded to said home agent whereby said device receives said IP packet and initiates communication via said IP network with the source of said IP packet.

BEST AVAILABLE COPY